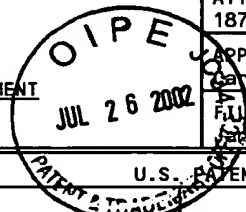
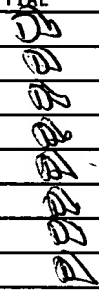
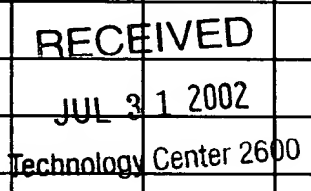





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| FORM PTO-1449<br><b>INFORMATION DISCLOSURE STATEMENT</b> |  |  |  | ATTY. DOCKET NO.<br>1875.0590009 |  | APPLICATION NO.<br>09/766,048 |  |
| APPLICANT<br>Carr et al.                                 |  |  |  | FILING DATE<br>January 19, 2001  |  | GROUP<br>2614                 |  |

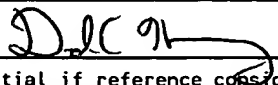
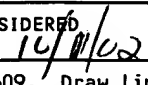


| U.S. PATENT DOCUMENTS   |     |                 |         |                  |       |           |             |
|---|-----|-----------------|---------|------------------|-------|-----------|-------------|
| EXAMINER INITIAL  |     | DOCUMENT NUMBER | DATE    | NAME             | CLASS | SUB-CLASS | FILING DATE |
|  | AA1 | 4,726,072       | 02/1988 | Yamashita et al. | 455   | 189       |             |
|   | AB1 | 4,979,230       | 12/1990 | Marz             | 455   | 3         |             |
|   | AC1 | 5,038,404       | 08/1991 | Marz             | 455   | 118       |             |
|   | AD1 | 5,140,198       | 08/1992 | Atherly et al.   | 307   | 529       |             |
|   | AE1 | 5,321,852       | 06/1994 | Seong            | 455   | 182.1     |             |
|   | AF1 | 5,390,346       | 02/1995 | Marz             | 455   | 260       |             |
|   | AG1 | 5,625,307       | 04/1997 | Scheinberg       | 327   | 113       |             |
|   | AH1 | 6,177,964 B1    | 01/2001 | Birleson et al.  | 348   | 725       | 08/01/1997  |
|   | AI1 |                 |         |                  |       |           |             |
|   | AJ1 |                 |         |                  |       |           |             |
| AK1   |     |                 |         |                  |       |           |             |

| FOREIGN PATENT DOCUMENTS |     |                 |      |         |       |           |             |
|--------------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL1 |                 |      |         |       |           | Yes<br>No   |
|                          | AM1 |                 |      |         |       |           | Yes<br>No   |
|                          | AN1 |                 |      |         |       |           | Yes<br>No   |
|                          | AO1 |                 |      |         |       |           | Yes<br>No   |
|                          | AP1 |                 |      |         |       |           | Yes<br>No   |



| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |   |  |
|---|----|---|--|
|  | AR | 1 | Bao, J.W. et al., "An MCM Upconverter for Double Conversion Data Tuner Applications," <i>IEEE GaAs Digest</i> , IEEE, 2000, pp. 107-109. |
|  | AS | 1 | Meier, G.M. et al., "Double Conversion Tuner: A Must For The Future?," <i>IEEE, Transactions on Consumer Electronics</i> , IEEE, Vol. 38 |
|  | AT | 1 | Moloney, D.M. et al., "Expanded Bandwidth Requirements in CATV Applications," 1992 NCTA Technical Papers, pp. 200-206.                   |

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| EXAMINER  | DATE CONSIDERED  |
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| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT |  |  |  | JUL 26 2002<br>O I P E<br>PATENT & TRADEMARK OFFICE |  | ATTY. DOCKET NO.<br>1875.0590009 |  | APPLICATION NO.<br>09/766,048 |  |
| APPLICANT<br>Carr et al.                          |  |  |  | FILING DATE<br>January 19, 2001                     |  | GROUP<br>2614                    |  |                               |  |

| PATENT DOCUMENTS |                 |      |      |       |           |             |  |
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |  |
|                  | AA2             |      |      |       |           |             |  |
|                  | AB2             |      |      |       |           |             |  |
|                  | AC2             |      |      |       |           |             |  |
|                  | AD2             |      |      |       |           |             |  |
|                  | AE2             |      |      |       |           |             |  |
|                  | AF2             |      |      |       |           |             |  |
|                  | AG2             |      |      |       |           |             |  |
|                  | AH2             |      |      |       |           |             |  |
|                  | AI2             |      |      |       |           |             |  |
|                  | AJ2             |      |      |       |           |             |  |
|                  | AK2             |      |      |       |           |             |  |

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|--------------------------|-----------------|------|---------|-------|-----------|-------------|--|
| EXAMINER INITIAL         | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |  |
|                          | AL2             |      |         |       |           | Yes<br>No   |  |
|                          | AM2             |      |         |       |           | Yes<br>No   |  |
|                          | AN2             |      |         |       |           | Yes<br>No   |  |
|                          | AO2             |      |         |       |           | Yes<br>No   |  |
|                          | AP2             |      |         |       |           | Yes<br>No   |  |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.) |    |   |   |
|--|----|---|---|
|  | AR | 2 | Nakatsuka, T. et al., "Low Distortion and Low Noise Oscillator Mixer IC for CATV Converters,"<br><i>GaAs IC Symposium Technical Digest 1988</i> , IEEE, November 6-9, 1988, pp. 161-164.                                  |
|  | AS | 2 | Scheinberg, N. et al., "A GaAs Up Converter Integrated Circuit for a Double Conversion Cable TV<br>'Set-Top' Tuner," <i>IEEE Journal of Solid-State Circuits</i> , IEEE, Vol. 29, No. 6, June 1994, pp. 688-692.          |
|  | AT | 2 | Giles, M., "The LM1823: A High Quality TV Video I.F. Amplifier and Synchronous Detector for Cable<br>Receivers, National Semiconductor Application Note 391, National Semiconductor Corporation, March<br>1985, 16 pages. |

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| EXAMINER | DATE CONSIDERED<br>1/1/02 |
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| FORM PTO-1449<br>INFORMATION DISCLOSURE STATEMENT |  | JUL 26 2002<br>O I P E<br>PATENT & TRADEMARK OFFICE |  | ATTY. DOCKET NO.<br>1875.0590009 |  | APPLICATION NO.<br>09/766,048 |  |
| APPLICANT<br>Carr et al.                          |  |   |  | FILING DATE<br>January 19, 2001  |  | GROUP<br>2614                 |  |



  

| PATENT DOCUMENTS |     |                 |      |      |       |           |             |
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| EXAMINER INITIAL |     | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|                  | AA3 |                 |      |      |       |           |             |
|                  | AB3 |                 |      |      |       |           |             |
|                  | AC3 |                 |      |      |       |           |             |
|                  | AD3 |                 |      |      |       |           |             |
|                  | AE3 |                 |      |      |       |           |             |
|                  | AF3 |                 |      |      |       |           |             |
|                  | AG3 |                 |      |      |       |           |             |
|                  | AH3 |                 |      |      |       |           |             |
|                  | AI3 |                 |      |      |       |           |             |
|                  | AJ3 |                 |      |      |       |           |             |
|                  | AK3 |                 |      |      |       |           |             |

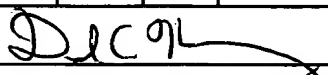
  

| FOREIGN PATENT DOCUMENTS |     |                 |      |         |       |           |             |
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| EXAMINER INITIAL         |     | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|                          | AL3 |                 |      |         |       |           | Yes<br>No   |
|                          | AM3 |                 |      |         |       |           | Yes<br>No   |
|                          | AN3 |                 |      |         |       |           | Yes<br>No   |
|                          | AO3 |                 |      |         |       |           | Yes<br>No   |
|                          | AP3 |                 |      |         |       |           | Yes<br>No   |

| OTHER (Including Author, Title, Date, Pertinent Pages, etc.)                        |    |   |   |
|---|----|---|---|
|  | AR | 3 | Operation and Programming Manual: HP 8561A and HP 8562A Portable Spectrum Analyzers, Hewlett-Packard Company, 1989, p. E-1.   |
|  | AS | 3 | Okanobu, T. et al., "Advanced Low Voltage Single Chip Radio IC," <i>IEEE Transactions on Consumer Electronics</i> , IEEE, Vol. 38, No. 3, August 1992, pp. 465-475. |
|   | AT | 3 |   |

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